an educational page for kids of all ages!

The Dirt on Muddy Water

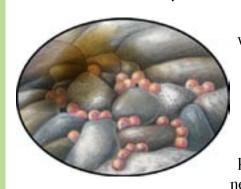
ou may have heard about pollutants such as motor oil and pesticides that are harmful to our rivers and streams. But did you know that loose soil from places like building projects or areas tilled for gardens also threatens plants and fish?

A small amount of soil in the water is normal, as some loose particles are carried by gentle rains. However, when large areas of loose soil are exposed—for instance when an area of a yard is dug up or when loads of soil are brought in to fill an area—a heavy rain can pick up and carry a stream of mud over driveways and streets to our storm drains which in turn lead to our natural waterways.



Rain carries loose soil from a construction project into the stormwater system. This muddy mess will make life difficult for salmon eggs (left) and other creatures downstream.

SALMON



This brown or clay colored runoff creates a muddy mess when it reaches our streams and rivers. Soil particles displace oxygen from the water, making it harder for fish to breathe. Many fish lay their eggs in the gravel beds in streams. When the gravel is covered by soil these eggs may be smothered. When soil collects on underwater plants, they are no longer able to receive the sunlight they need for photosynthesis.

Sediment deposits, over time, can make a stream more shallow. When streams become more shallow, they are more likely to flood. The shallow water is also heated more by the sun, causing water temperatures to rise, forcing fish to seek out cooler areas to live and breed.

Even a few small muddy projects can make a mess as they flow downstream. The best way to keep rivers healthy is to prevent soil from leaving our yards. Some simple solutions include covering up dirt piles and sweeping dirt off of sidewalks, driveways and streets. Remember, every little bit helps!



Hi folks! I'm Lily, the Pacific chorus frog, and I help the

City of Eugene teach

people about stormwater

in our community.

My wildlife friends in the

streams and

wetlands live in water. We

rely on you to help keep dirt in stormwater from

polluting our homes!

Teachers: The City of Eugene (5-12). Additional copies of **Stormwater Connections may** also be availble for classroom use. Call 541-682-2739 for more information.

Promote stormwater awareness in your workplace. The City of Eugene has produced a related environmental topics that are available free for display in public areas. Each poster is 13 × 37 inches, and topics include Salmon (right), Pollutants. Visit www.eugene-or.gov/happyrivers to view the series and order yours.

